

A method and system for determining whether to accept an incoming telephone call over an Internet Protocol (IP) network. An Internet Protocol (IP) telephony gateway, receiving the incoming call, is given a predetermined threshold condition for at least one performance indicator obtained from a monitoring mechanism for monitoring the performance quality of ongoing calls. The incoming call is accepted if the threshold condition is fulfilled. The predetermined threshold condition may comprise one or more threshold values, wherein a check is made by comparing a current value of the at least one performance indicator value with the one or more threshold values. In this way, a transmission path is ensured with acceptable quality for calls over an IP core network. Call establishment delays are also minimised.

(Fig. 1)